



Department of Public Works
Infrastructure Services Division

Ghassan Korban
Commissioner of Public Works

Preston Cole
Director of Operations

Jeffrey S. Polenske
City Engineer

February 5, 2014

Official Notice No. 2-1
Addendum No. 1

A revised project quantity reflects the quantity of trees clearing and grubbing, also a revised special provisions to show the locations of trees to be removed (#23).

Bid Item, 40411, Trees Clearing – new total is 130 in dia.

Bid Item, 40412, Trees Grubbing – new total is 130 in dia.

Please acknowledge the Addendum No. 1 in the proper section of the bid.

Very truly yours,

Mazen Amer
Management Civil Engineer Senior

MA: ns



**PROJECT BREAKDOWN
OFFICIAL NOTICE # 2-1**

02/03/2014
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PROJECT TITLES

PROJECT 872-0821	PROJECT/GRANT ST211120121	ESTIMATE 29090
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N. 19th St. - W. Capitol Dr. to W. Olive St.

PROJECT 871-0836	PROJECT/GRANT ST21110116	ESTIMATE 28106
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N. 3rd St. - W. Auer Ave. to W. Keefe Ave. (Including replacement of speed humps (4))

**PROJECT BREAKDOWN
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Project Number		872-0821	871-0836	TOTAL
		29090	28106	
Plans Per Project		2	3	
Roadway Width	FT.	30'	36'	
Approximate Length	FT.	1580'	2050'	

ITEM #	ITEM DESCRIPTION	UNIT			
30500	Mobilization	Lump Sum	*	*	1
30501	Finishing Roadway	Lump Sum	*	*	1
30606	Barricading and Signing	Lump Sum	*	*	1
40121	Cutting	cu. yd.	208	55	263
40122	Roadway Cutting	cu. yd.	419	3094	3513
40131	Filling	cu. yd.	62	201	263
40132	Roadway Filling	cu. yd.	7	-	7
40211	Pavement Removal	sq. yd.	5684	10	5694
40231	Curb and/or Curb and Gutter Removal	lin. ft.	20	4325	4345
40241	Concrete Walk and/or Driveway Removal	sq. ft.	14103	15442	29545
40261	Sawing (Full Depth)	lin. ft.	522	-	522
40262	Sawing	lin. ft.	249	117	366
40411	Trees Clearing	in. dia.	60	70	130
40412	Trees Grubbing	in. dia.	60	70	130
50200	Concrete Curb and Gutter	lin. ft.	3149	4332	7481
50315	5 inch Concrete Walk	sq. ft.	15780	16957	32737
50330	Detectable Warning Field	sq. ft.	-	104	104
50367	7 inch Concrete Driveway	sq. ft.	2242	602	2844
50570	7 inch Concrete Pavement	sq. yd.	4787	7750	12537
50590	9 inch Concrete Pavement	sq. yd.	34	-	34
50670	7 inch Concrete Alley Pavement	sq. yd.	-	10	10
50760	6 inch Concrete Base	sq. yd.	14	-	14
60130	Variable Thickness Asphalt Concrete Pavement (1/2	tons	7	114	121
70203	3 inch Crushed Gravel Base	sq. yd.	5684	-	5684
70500	Gravel Filling	tons	-	17	17
82200	Sodding	sq. yd.	1972	1847	3819
82300	Topsoil	cu. yd.	109	103	212
83200	Pavement Grinding	sq. yd.	62	638	700
83355	Pavement Marking, Crosswalk, Epoxy, 12 Inch, White	lin. ft.	-	300	300
83365	Pavement Marking, Stop Line, Epoxy, 24 Inch, White	lin. ft.	-	75	75
83375	Pavement Marking, 12 inch White	lin. ft.	-	200	200
83400	Sealing Pavement Joints and Cracks	sq. yd.	4787	7750	12537
84320	Water Valve Box Adjustment	each	11	16	27
84325	Water Service Box Adjustment	each	47	52	99
84511	Manhole / Inlet Adjustment Type I	each	26	20	46
84513	Manhole / Inlet Adjustment Type III	each	-	7	7
97003	Abandon Storm Water Inlet or Catch Basin	each	-	1	1
97010	Removing Inlets	each	-	5	5
97180	Inlet Frame and Cover Type 57	each	8	11	19
97191	Manhole Frame and Cover Type 58	each	1	8	9
97212	Inlet, Type 44A	each	-	8	8
97213	Inlet, Type 45A	each	9	-	9
97220	Manhole/Inlet Repair	vert. ft.	-	5	5
97328	8" PVC Pipe	lin. ft.	317	214	531
97350	4' Diameter Manhole Including Frame and Cover	each	1	-	1
97701	Internal Manhole Seal	each	4	-	4
97900	Erosion Control	Lump Sum	*	*	1

* Combined under one lump sum.

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For

(ST211120121)

**N. 19th St. - W. Capitol Dr. to W. Olive St.
(ST21110116)**

N. 3rd St. - W. Auer Ave. to W. Keefe Ave. (Including replacement of speed humps (4))

1st Aldermanic District

ALL BIDS MUST BE TYPED OR PRINTED

30500	MOBILIZATION	1 Lump Sum
(Bid in figures)	\$ _____	Lump Sum
(Bid in words)	\$ _____	Lump Sum
30501	FINISHING ROADWAY	1 Lump Sum
(Bid in figures)	\$ _____	Lump Sum
(Bid in words)	\$ _____	Lump Sum
30606	BARRICADING AND SIGNING	1 Lump Sum
(Bid in figures)	\$ _____	Lump Sum
(Bid in words)	\$ _____	Lump Sum
40121	CUTTING	263.00 cu. yd.
(Bid in figures)	\$ _____	per cu. yd.
(Bid in words)	\$ _____	per cu. yd.
40122	ROADWAY CUTTING	3,513.00 cu. yd.
(Bid in figures)	\$ _____	per cu. yd.
(Bid in words)	\$ _____	per cu. yd.
40131	FILLING	263.00 cu. yd.
(Bid in figures)	\$ _____	per cu. yd.
(Bid in words)	\$ _____	per cu. yd.

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40132	ROADWAY FILLING	7.00 cu. yd.
(Bid in figures)	\$ _____	per cu. yd.
(Bid in words)	\$ _____	per cu. yd.
40211	PAVEMENT REMOVAL	5,694.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.
40231	CURB AND/OR CURB AND GUTTER REMOVAL	4,345.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
40241	CONCRETE WALK AND/OR DRIVEWAY REMOVAL	29,545.00 sq. ft.
(Bid in figures)	\$ _____	per sq. ft.
(Bid in words)	\$ _____	per sq. ft.
40261	SAWING (FULL DEPTH)	522.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
40262	SAWING	366.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
40411	TREES CLEARING	130.00 in. dia.
(Bid in figures)	\$ _____	per in. dia.
(Bid in words)	\$ _____	per in. dia.
40412	TREES GRUBBING	130.00 in. dia.
(Bid in figures)	\$ _____	per in. dia.
(Bid in words)	\$ _____	per in. dia.

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50200	CONCRETE CURB AND GUTTER	7,481.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
50315	5 INCH CONCRETE WALK	32,737.00 sq. ft.
(Bid in figures)	\$ _____	per sq. ft.
(Bid in words)	\$ _____	per sq. ft.
50330	DETECTABLE WARNING FIELD	104.00 sq. ft.
(Bid in figures)	\$ _____	per sq. ft.
(Bid in words)	\$ _____	per sq. ft.
50367	7 INCH CONCRETE DRIVEWAY	2,844.00 sq. ft.
(Bid in figures)	\$ _____	per sq. ft.
(Bid in words)	\$ _____	per sq. ft.
50570	7 INCH CONCRETE PAVEMENT	12,537.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.
50590	9 INCH CONCRETE PAVEMENT	34.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.
50670	7 INCH CONCRETE ALLEY PAVEMENT	10.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.
50760	6 INCH CONCRETE BASE	14.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.

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60130	VARIABLE THICKNESS ASPHALT CONCRETE PAVEMENT (1/2 INCH MAXIMUM)	121.00 ton
(Bid in figures)	\$ _____	per ton
(Bid in words)	\$ _____	per ton
70203	3 INCH CRUSHED GRAVEL BASE	5,684.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.
70500	GRAVEL FILLING	17.00 ton
(Bid in figures)	\$ _____	per ton
(Bid in words)	\$ _____	per ton
82200	SODDING	3,819.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.
82300	TOPSOIL	212.00 cu. yd.
(Bid in figures)	\$ _____	per cu. yd.
(Bid in words)	\$ _____	per cu. yd.
83200	PAVEMENT GRINDING	700.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.
83355	PAVEMENT MARKING, CROSSWALK, EPOXY, 12 INCH, WHITE	300.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
83365	PAVEMENT MARKING, STOP LINE, EPOXY, 24 INCH, WHITE	75.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.

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83375	PAVEMENT MARKING, 12 INCH WHITE	200.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
83400	SEALING PAVEMENT JOINTS AND CRACKS	12,537.00 sq. yd.
(Bid in figures)	\$ _____	per sq. yd.
(Bid in words)	\$ _____	per sq. yd.
84320	WATER VALVE BOX ADJUSTMENT	27.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
84325	WATER SERVICE BOX ADJUSTMENT	99.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
84511	MANHOLE / INLET ADJUSTMENT TYPE I	46.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
84513	MANHOLE / INLET ADJUSTMENT TYPE III	7.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
97003	ABANDON STORM WATER INLET OR CATCH BASIN	1.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
97010	REMOVING INLETS	5.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each

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97180	INLET FRAME AND COVER TYPE 57	19.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
97191	MANHOLE FRAME AND COVER TYPE 58	9.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
97212	INLET, TYPE 44A	8.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
97213	INLET, TYPE 45A	9.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
97220	MANHOLE/INLET REPAIR	5.00 vert. ft.
(Bid in figures)	\$ _____	per vert. ft.
(Bid in words)	\$ _____	per vert. ft.
97328	8" PVC PIPE	531.00 lin. ft.
(Bid in figures)	\$ _____	per lin. ft.
(Bid in words)	\$ _____	per lin. ft.
97350	4' DIAMETER MANHOLE INCLUDING FRAME AND COVER	1.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each
97701	INTERNAL MANHOLE SEAL	4.00 each
(Bid in figures)	\$ _____	per each
(Bid in words)	\$ _____	per each

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97900	EROSION CONTROL	1 Lump Sum
(Bid in figures)	\$ _____	Lump Sum
(Bid in words)	\$ _____	Lump Sum
TOTAL ESTIMATE:		
(Bid in figures)	\$ _____	
(Bid in words)	\$ _____	

ST211120121 – N. 19th St. – W. Capitol Dr. to W. Olive St.
 ST211101116 – N. 3rd St. – W. Auer Ave. to W. Keefe Ave.
 (Including replacement of speed humps -4)

23. Three (3) trees are to be removed on Project No. ST211101116 as follows:

Size and Type	Location
27" Maple	Sta. 13+51 W/S
19" Maple	Sta. 14+63 W/S
24" Maple	Sta. 18+18 E/S

- Two (2) trees are to be removed on Project No. ST211120121 as follows:

Size and Type	Location
42" Ash	Sta. 4+98 W/S
28" Ash	Sta. 10+37 W/S

24. The City has retained a consultant for doing line and grade staking on paving contracts. The City needs the project staked five (5) working days before construction starts so the removals can be measured by City field crews. As a result, the contractor must contact the City eight (8) working days in advance so that the City can give the consultant three (3) working days to stake the project. The City will make the initial consultant contact at the time the contractor calls for a start. If the contractor wants the stakeout done in a special way to accommodate a special piece of equipment or a new procedure, it is up to the contractor to communicate this to the consultant. The consultant is required to stake each stage of work one (1) time. The contractor is required to check that the stakes and grades are acceptable to use before construction starts. Any staking required because the contractor failed to protect the stakes or failed to transfer the grades would be at the contractor's expense. If there are design changes, the consultant will be paid an *extra* for stakeout. Stakes needing replacement due to alleged third party actions will require Construction Supervisor approval if a cost is involved.
25. The contractor shall protect, adjust and maintain accessibility to all water access boxes (services, valves, etc.) within the limits and for the duration of the paving project. Within the limits of the project, there are approximately **27 gate valves and 99 water service boxes** to be protected, maintained and adjusted. Cost for this work shall be per each as listed in the bid item quantities.

The City will locate, mark, inspect and repair all water access boxes within the limits of the project before the contract starts. Before construction commences, the contractor will be provided additional detailed information identifying these facilities. The contractor is responsible throughout the duration of the project, to ensure all water boxes are adequately located and identified by blue paint and that they remain accessible for operation of the appurtenances by City forces at all times. The contractor shall exercise caution in working adjacent to these facilities to protect them from damage and to maintain the required access to them. Any facility identified during the duration of the project that cannot be located or operated, must be corrected by the contractor at that time. If the City requires location and/or operation of water appurtenances during the course of paving, and it is not identifiable and/or accessible, the City will make the necessary repairs and the cost as well as the bid item deducted from the contract or billed.

ST211120121 – N. 19th St. – W. Capitol Dr. to W. Olive St.
 ST21110116 – N. 3rd St. – W. Auer Ave. to W. Keefe Ave.
 (Including replacement of speed humps -4)

All materials used for the adjustment of these facilities must meet City specifications and will be provided by *Milwaukee Water Works' Stores* by contacting Mr. Jesse Hernandez at (414) 286-6306 and / or (414) 708-2670. If there is contractor damage, the materials must still be provided by the *Milwaukee Water Works' Stores*; however, in this case, the contractor will be charged for all materials. Materials furnished by the City and not used on the project shall be delivered to the *Milwaukee Water Works' Stores*, 3850 North 35th Street. Materials being returned must be accompanied with a "**surplus material**" form completed by the Public Works' Inspector assigned to the project.

Upon completion of the contract work, the City will inspect all water access boxes within the project limits to ensure the boxes are clean, properly aligned and accessible. The contractor will be notified of any defects by the City. The contractor will have thirty (30) days from the date of notification to complete corrections. After thirty (30) days the City will re-inspect those boxes noted as having defects. Any remaining defects will be corrected by the City, including pavement, and the costs as well as the bid item deducted from the contract or billed.

26. During construction, it is anticipated that the City of Milwaukee **street lighting facilities** will be maintained as follows:

Project/s	Street Lighting Facilities
ST211120121	Temporary Overhead to be installed
ST21110116	Temporary Overhead to be installed

Street Lighting personnel will determine if the lighting facilities will be installed in overhead or left in service to be protected and adjusted. If it is determined that overhead is justified, street lighting personnel will make every effort to install temporary overhead facilities and relocate permanent facilities, as needed, before roadway construction starts. Prior to construction, the contractor will be provided with a street lighting plan identifying the live facilities.

The contractor shall be aware that when **Temporary Overhead** is installed, some existing underground street lighting facilities can remain live and must be carefully worked around to avoid any damage to them. The contractor is to be aware that with many paving jobs overhead facilities will be installed at the intersections only while the remainder of the job is to be treated as a protect and adjust project. The contractor will be held responsible for any damages to the portions of the lighting facilities which remain in underground and live. The contractor is not start work until the street lighting overhead circuitry is fully operational. If the contractor starts before the circuitry is fully operational, he will be responsible for all damages to lighting facilities.

During and after roadway construction, *Street Lighting Forces* will install permanent lighting facilities. Once street lighting personnel installs permanent facilities, especially pipes, the contractor is to use caution near these facilities. He will be held responsible for damages to the newly installed facilities.

The contractor shall keep the *Street Lighting Construction Supervisors* informed of the status of the roadway construction. Contact:

Mr. George Berdine (414) 286-5943 / office (414) 708-4245 / cell

ST211120121 – N. 19th St. – W. Capitol Dr. to W. Olive St.
 ST211101116 – N. 3rd St. – W. Auer Ave. to W. Keefe Ave.
 (Including replacement of speed humps -4)

Mr. Dennis Miller (414) 286-5942 / office (414) 708-4251 / cell
 Mr. Thomas Hughes (414) 286-3457 / office (414) 708-3175 / cell

Note: If Mr. Berdine, Mr. Miller, or Mr. Hughes is not available, then contact our dispatcher at (414) 286-5944. For damages occurring after hours (not between 7:00 AM to 3:00 PM on holidays and weekends) please use our 24 hour number, (414) 286-3015.

The contractor must keep the area behind the curb free from over pour and other debris. He will be held responsible for costs incurred by *Street Lighting Forces* for cleaning debris from behind the curb.

If the contractor requests the relocation of any street lighting facilities, *permanent or temporary*, for his convenience, he will be responsible for all costs incurred by *Street Lighting* personnel fulfilling his request.

Any questions regarding the design of the lighting system are to be directed to *Street Lighting Engineering*. Contact Mr. Tom Manzke at (414) 286-3265.

27. **Forestry**

Forestry Special Provisions include:

When tree roots are encountered, the following shall apply:

1. **Sidewalk Construction:**

- A. The root system on the walk side of the tree shall be cut no deeper than **nine-inches (9")** below the finished grade of the new walks, and not more than **five-inches (5")** from the edge of the new walk. Roots in the walk area shall be removed only to a depth of **nine-inches (9")** below the finished grade of the new walk.
- B. When replacing walks adjacent to the following trees, a slip or thin form must be used. Additionally, soil disturbance in the tree border should be limited to no more than **one-quarter inch (1/4")** beyond the edge of the new walk:

Project No. ST211120121		
Sta. 9+97.5 W/S	Sta. 11+32.5 W/S	Sta. 12+63 W/S
Sta. 16+05.5 W/S	Sta. 16+50 W/S	Sta. 10+31 E/S

Project No. ST211101116		
Sta. 1+13 W/S		

ST211120121 – N. 19th St. – W. Capitol Dr. to W. Olive St.
 ST211101116 – N. 3rd St. – W. Auer Ave. to W. Keefe Ave.
 (Including replacement of speed humps -4)

- C. The new walk should be arced adjacent to the following trees:

Project No. ST211101116		
Sta. 1+95 W/S	Sta. 10+50 W/S	Sta. 17+15 W/S
Sta. 18+18 W/S	Sta. 18+55 W/S	Sta. 19+34 W/S
Sta. 1+57.5 E/S	Sta. 2+03 E/S	Sta. 2+48 E/S
Sta. 6+70.5 E/S	Sta. 7+56 E/S	Sta. 8+00 E/S
Sta. 8+27 E/S	Sta. 8+78 E/S	Sta. 10+08 E/S
Sta. 14+50 E/S	Sta. 15+13 E/S	

- D. Where sidewalks are to be narrowed, all old sidewalks should be removed prior to any root cutting. If necessary, the root system should be cut within **one-quarter inch (¼")** of the edge of the proposed new walk and no more than **nine-inches (9")** below the finished grade of the new walk.
- E. Sidewalks are to be removed, and roots cut, by use of **hand implements only**.

2. **Carriage Walk Construction:**

- A. When constructing or replacing carriage walks, **roots shall not be cut by means of mechanical root cutting machines**. If root removal is essential to carriage walk replacement, **roots shall be manually cut with hand implements**. Roots shall be removed no deeper than **nine-inches (9")** below the finished grade of the new carriage walk.
- B. Move the carriage walk to a position that does not interfere with the street tree, or eliminate the carriage walk at the following locations:

Project No. ST21112021		
Sta. 6+24 E/S move 1' North of		

3. **Curb, Gutter and Road Construction:**

- A. The root system on the curbside shall be cut no more than **two-inches (2")** behind the back edge of the new curb and not more than **eighteen-inches (18")** in depth when constructing the new curb and gutter.
- B. The root system on the curb side shall be cut no more than **one-quarter-inch (¼")** from the back edge of the new curb, and a **one-quarter-inch (¼")** slip, thin form, or slip form pavers, shall be used for the following trees:

Project No. ST211120121		
Sta. 2+82 W/S	Sta. 4+05.5 W/S	Sta. 9+87.5 W/S

ST211120121 – N. 19th St. – W. Capitol Dr. to W. Olive St.
 ST21110116 – N. 3rd St. – W. Auer Ave. to W. Keefe Ave.
 (Including replacement of speed humps -4)

Sta. 12+10 W/S	Sta. 14+85 W/S	Sta. 1+24 E/S
Sta. 1+62 E/S	Sta. 3+21.5 E/S	

- C. The root system on the curb side **shall not be cut; 1) a zero (Ø) clearance** slip or integral form paver can be used; or 2) gap and hand form using one-quarter-inch (¼") steel plate for the following trees:

Project No. ST211120121		
Sta. 3+24 W/S	Sta. 5+41 W/S	Sta. 6+38 W/S
Sta. 6+83 W/S	Sta. 4+76 E/S	Sta. 5+86.5 E/S
Sta. 6+17 E/S	Sta. 6+57 E/S	

- D. When constructing or replacing driveways or driveway approaches, **roots shall not be cut by means of mechanical root cutting machines**. If root removal is essential to driveway replacement, roots shall be manually cut with hand implements.
- E. Exposed tree roots shall be covered with mulch and watered from a period immediately following curb and gutter removal until the area is backfilled following construction.

4. **General Requirements:**

- A. All cutting for the removal of sod and soil in order to establish a finished grade within four feet (4') of existing trees must be done manually if necessary.
- B. No construction equipment, cars, trucks or materials shall be parked or stored on any median or tree border on this project or adjacent roadways.
- C. Root foundations must remain adequate to withstand heavy windstorms.
- D. Root systems of street trees **shall not be cut** for the installation of any type of cable by the contractor or City Department. Contact **the Forestry Division at (414) 708-2428** for directional boring specifications.
- E. Caution should be used during the construction process to avoid damage to the roots, trunks, and branches of all street trees. Damage caused to any street tree or irrigation system will be **repaired by the Forestry Division** and the costs of repair, rejuvenation, and/or value lost will be billed to the contractor or credited against the contract at the option of the City.
- F. At locations where the contractor has not complied with the Forestry Special Requirements stated in the Special Provisions above, and the maximum clearance was exceeded, or a thin form was not used, a minimum credit to the City of **fifty dollars (\$50.00)** per location will be taken. The credit will increase in proportion to

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(Including replacement of speed humps -4)

the excess distance beyond clearance allowed. The credit will be **(\$50.00)** for each two-inch (2") increment, or part thereof, in excess of the initial clearance allowed. Any damage to the tree's structure totaling fifteen (15%) percent of the tree's value will be billed on a prorata basis. If, in the opinion of the Forestry Division, the tree has been damaged to the point that it warrants removal, the credit that will be taken will be equal to **one-hundred dollars (\$100.00)** per inch diameter of the tree. A field measurement will be taken to determine the tree size.

"Emerald Ash Borer"

Clearing and Grubbing:

This applies to projects in the emerald ash borer (EAB) quarantined zone **Milwaukee County**.

Follow and obey the following Wisconsin department of agriculture, trade, and consumer protection order:

Regulatory Considerations

The quarantine means that ash wood products may not be transported out of the quarantined area.

Clearing and grubbing includes all ash trees that are to be removed from within the Project footprint. If ash trees are identified within clearing and grubbing limits of the Project, the following measures are required for disposal:

1. May be trucked to a licensed landfill within the quarantined zone with prior approval of the city engineer.
2. Burning is optional if in compliance with section 201.3 of the standard specifications.

Ash logs, branches, and roots must be disposed of immediately and may not be stockpiled.

Anyone moving firewood or ash products from Milwaukee County is subject to state and federal fines up to \$1,000.00. All fines are the responsibility of the contractor.